REGISTRATION DETAILS

Faculty Members of the **AICTE** Approved Institutions, Research Scholars, PG Scholars,

NO REGISTRATION FEES FOR THE PARTICIPANTS.

Please Click on the link given below for Registration

https://atalacademy.aicte-india.org/

The FDP will be conducted in OFFLINE mode only.

External Participants **(Traveling more than 20km one side to attend the FDP)** who attend 90% of the sessions will be reimbursed with the traveling allowance of maximum **Rs.1600/-.**

- Number of participants are limited to 50.
- Registrations accepted will be based on first come first serve basis
- Accommodation Arrangement will be Made on Request.
- Attendance for all sessions is mandatory (**80%minimum**)
- Certificate will be issued to the participants who will score more than **70%** in the assessment Test.

ORGANISING COMMITTEE

Mr. Mallikarjun G. Hudedmani

Dr. Prakash S. Kerur

Dr. Manjunath B. Ranadev

Mr. Vishwanath M. Soppimath

Mr. Prakash M. N.

Mr. Keertikumar S. H.

Mrs. Shweta Dolli

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Dr. Prabhakar B. Kore
Chairman, KLE Society, Belagavi

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Member, Board of Management, KLE Society, Belagavi

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Vice Chancellor, VTU, Belagavi

Dr. Ashok Shettar
Pro Chancellor, KLETU, Hubballi

Dr. Prakash Tewari
Vice Chancellor, KLETU, Hubballi

Dr. B. S. Anami
Registrar, KLETU, Hubballi

ORGANISING CHAIR

Dr. Manu T. M.
Principal, KLE Institute of Technology, Hubballi

CO-ORDINATOR

Dr. Vinoda S.
Professor & Head of EEE Department
KLE Institute of Technology, Hubballi
Contact No: 9481538909

CO CO-ORDINATOR

Mrs. Sarita U.
Assistant Professor, Department of EEE,
KLE Institute of Technology, Hubballi
Contact No: 9008435662

ADVISORY COMMITTE

Dr. Yerriswamy T.
Dean(SW)

Dr. S. N. Mathad
HoD, Physics, Dean(R&D)

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HoD, ME

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K.L.E. Society's

K.L.E. INSTITUTE OF TECHNOLOGY, HUBBALLI-27

(Approved by AICTE New Delhi, Affiliated to Visvesvaraya Technological University, Belagavi & Accredited by NBA)

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One Week

ATAL Basic Faculty Development Program

On

"Recent Trends & Advances in Energy Storage System For E-Mobility"

From 9th to 14th September 2024

Sponsored by
AICTE Training and Learning (ATAL), New Delhi

Organized by

Department of Electrical & Electronics Engineering

ABOUT THE INSTITUTE

KLE Institute of Technology, located in Hubballi, Karnataka, India is established in the year 2008. It is one of the premier Engineering colleges in the North Karnataka region. The institution is known for its academic discipline, industry oriented activities, infrastructure and holistic development of students, making it a preferred choice for Engineering Education in the region. KLEIT is affiliated to Visvesveraya Technological University, Belagavi. It offers undergraduate programs, Post graduate programs M.Tech (Computer Science & Engineering) and Master of Computer Applications. All the UG programs are accredited by NBA. The institution has signed MoU with multinational company SAMSUNG Innovation Campus. KLEIT has incubated four start-ups and one company(Enventure) on the campus, exhibiting the competence for new education policy coupled with modern outlook of the management. The college hosts various student clubs, societies and chapters, promoting technical and cultural development among students. The college has strong Alumni network.

Vision of the Institute

One Amongst Top Five Percent Indian Engineering Institutions, emphasizing student-centered learning, transforming young minds into innovative and globally competent engineers practicing human values adaptive to environmental and societal needs.

Mission of the Institute

- Modernizing infrastructure from time to time, supporting and recognizing staff to upgrade their knowledge aligning to technological trends, environmental and societal needs in collaboration with academia, industry and research institutions.
- Fostering research amongst students and faculty resulting in Intellectual property rights for the institution.
- Practicing different pedagogies for coherent interactions between students and faculty in learning on demand skill sets.
- Continual nurturing of students to enhance their creativity in curricular, co-curricular and extracurricular activities.
- Practicing human values and professional ethics for well-being of the society.

ABOUT THE DEPARTMENT

The department of Electrical and Electronics Engineering was established in the year 2008. The Department has a team of qualified, dedicated and experienced faculty and well equipped laboratories with state-of-the-art set up. The department is known for its student-centric learning approach and offer career enhancement programs to learn and grow in their careers. The department arranges regularly the field visits, orientation programs, and technical talks for practical knowledge enhancement and is beneficial for industry institute interaction. The department has MOU's with HESCOM, Dharwad, Vijayalaxmi Gears, Hubballi and Shantala Pvt Ltd, Hubballi. The department is recognized as research center in the year 2019 by VTU Belagavi. The student of the department secured 8th Rank to VTU for the year 2022-23. The students of the department are working in reputed companies & defence organizations.

Vision of the Department

To produce Electrical and Electronics Engineers to meet the changing requirements of industry, academia and entrepreneurship by practicing professional ethics and human values.

Mission of the Department

- To provide state-of-the-art infrastructure to impart domain knowledge and skills.
- To provide theoretical and practical knowledge for design, operation, control and maintenance of the electrical systems.
- To organize field and industrial visits to encourage socially relevant projects.
- To inculcate discipline, human values and professional ethics.

ABOUT THE FDP

The focus of six days Faculty Development Program(FDP) on "Recent Trends and advances in energy storage system for E-Mobility is to provide latest knowledge and technical skills related to advanced Energy storage systems for E mobility and to get hands–on experience using Matlab. This FDP provides platform for the upcoming researchers, academicians and industry professionals to progress in their fields. E-Mobility has gained more popularity and became more noticeable in various sectors. Every day we read about E-Mobility in the newspapers & our day-by-day activities have involved with the different E-Mobility. Based on current applications and global data, the International Energy Agency (IEA) expected that the role of E-Mobility in global social platform will increase from 2% to 30% by 2030. This program emphasis on recent trends in E- Mobility development and advances in energy storage systems. The FDP will also focuses on both basic and the advanced knowledge in the development and implementation of low-cost and eco-friendly energy storage system for E-mobility.

OBJECTIVES OF THE FDP:

- To Enhance understanding of E-Mobility.
- To Explore advanced energy storage technologies.
- To Address technical challenges and solutions.
- To Stimulate research & development.
- To Encourage interdisciplinary learning.
- To develop Networking & Knowledge sharing.

TOPICS COVERED DURING FDP

- Basics of EV & Energy storage System
- Use of Super capacitors in Electric Vehicles
- Analyzing power sources for E-Mobility Performance
- Intelligent Battery Management System for Electric Vehicle
- Impact of EVs on Grid and Trends in Sustainable Transportation
- Smart Grid Operation & Control in E-Mobility
- Battery Modeling using simulink and simscape
- E-Mobility Using Mat lab & simulink
- Testing & Certification of EV batteries
- Energy Storage Materials and Devices: Progress at C-MET & Future Plans
- Life Skills & Stress Management.

Hands-on sessions

Battery modeling using MATLAB simulink, finished and retrofit EV

RESOURCE PERSONS

Dr. K. C. Vora
Dy. Director & Head, ARAI Academy Pune

Dr. R. L. Sharma
Managing Director, SPEL Technologies Pvt. Ltd. Pune

Dr. Milind Kulkarni
Senior Scientist & Head, Nano Composite laboratory, C-MET Pune

Dr. Dattatreya Gaonkar
Professor & Head, Dept of EEE,NIT, Suratkal

Dr. Vijay Babu
Faculty, Dept of Mechatronics, Manipal Institute of Technology, Manipal

Mr. Anil Choudhary
Industrialist, Go Go A1 Motors Pvt Ltd, Mumbai

Shri. Ramgopal Dasa
M.Sc (Chemistry), Secretary, ISKON Hubballi-Dharwad

Mr. Rakshit B. S.
Sr. Application Engg. , Mathwork Products, CoreEL Technologies, Bangalore

Mr. Avinash
Application Engg. , Mathwork Products, CoreEL Technologies, Bangalore

Dr. Vinoda S.
Professor & Head, Dept, of EEE, KLEIT, Hubballi

Mr. Mallikarjun G. Hudedmani
Sr. Faculty, Dept of EEE, KLEIT, Hubballi

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AICTE TRAINING AND LEARNING (ATAL)

SCHEDULE OF BASIC FDP

FDP Application Number:1716623233

ONE WEEK FDP ON RECENT TRENDS AND ADVANCES IN ENERGY STORAGE SYSTEM FOR E-MOBILITY

FDP Start Date :09/09/2024 | FDP End Date:14/09/2024

DAY 1	DAY 2	DAY 3	DAY 4	DAY 5	DAY 6
09-09-2024 9:00am – 9:30am Inauguration	10-09-2024	11-09-2024	12-09-2024	13-09-2024	14-09-2024
9:30am – 12:00pm SESSION 1 Analyzing Power Sources for E- Mobility Performance by Dr. Vijay Babu.	9:30am – 12:00pm SESSION 3 Impact of EVs on Grid and Trends in Sustainable Transportation by Mr. Mallikarjun G. Hudedmani	9:30am – 12:00pm SESSION 5 Intelligent Battery Management System for EV by Dr. Vinoda S	9:30am – 12:00pm SESSION 7 Basics of EV & Energy Storage System by Mr. Anil Choudhary	9:00am – 1:00pm Industrial visit to JSK EV Centre, Gokul Road,Hubli	9:30am – 12:00pm SESSION 10 Smart Grid Operation & Control in E-Mobility by Dr. Dattatrey Gaonkar
12:00pm – 1:00pm Article Discussion Title of the Research Paper : Battery State Of Charge Estimation Using An Artificial Neural Network	12:00pm – 1:00pm Article Discussion Title of the Research Paper : Modeling And Simulation of Charging Based on Solar/ Grid Powered Electric Vehicle	12:00pm – 1:00pm Article Discussion Title of the Research Paper : State of charge estimation of electric vehicles by deep neural networks	12:00pm – 1:00pm Article Discussion Title of the Research Paper : Electric vehicles charging using photovoltaic: Status and technological review		9:30am – 12:00pm Article Summary
1:00pm – 2:00pm LUNCH	1:00pm – 2:00pm LUNCH	1:00pm – 2:00pm LUNCH	1:00pm – 2:00pm LUNCH	1:00pm – 2:00pm LUNCH	1:00pm – 2:00pm LUNCH
2:00pm – 4:30pm SESSION 2 Testing & Certification of EV batteries by Dr. K C Vora	2:00pm – 4:30pm SESSION 4 E Mobility using Matlab & Simulink, Battery Modelling using Simulink & simscape by Mr. Rakshit B S & Mr. Avinash	2:00pm – 4:30pm SESSION 6 Energy storage materials & Devices: Progress at C-MET & Future plans by Dr. Milind Kulkarni	2:00pm – 4:30pm SESSION 8 Life Skills & Stress Management by Shri. Ramgopal Dasa	2:00pm – 4:30pm SESSION 9 Use of super capacitors in Electric Vehicles by Dr. R. L. Sharma	2:00pm – 4:00pm MCQ & Reflection on Journal
4:30pm – 5:30pm Hands on training /Labs	4:30pm – 5:30pm Hands on training /Labs	4:30pm – 5:30pm Hands on training /Labs	4:30pm – 5:30pm Hands on training /Labs	4:30pm – 5:30pm Hands on training /Labs	4:30pm – 5:30pm Hands on training /Labs

Co - Coordinator
Mrs. Sarita U.

Coordinator
Dr. Vinoda S.

Organizing Chair
Dr. Manu T. M.
Principal

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Department of Electrical and Electronics Engineering

One Week

ATAL Basic Faculty Development Program

On

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From 9th to 14th September 2024

Instruction for Registration & NOC Format

1 Go to the link: https://atalacademy.aicte-india.org/signup

2 Sign up and Register as a participant - Fill your details

3 Click on General Details => Fill your details.

4 Click on "FDPs/CPDPs/Workshops", select type: ATAL; Select Month: September; Select Thrust Area: Engineering.

5 Scroll on the web page and identify the FDP named **"Recent Trends and advances in Energy storage system** for **E-mobility-Application No :1716623233"** from **09th to 14th September, 2024** at KLE Institute of Technology, Hubballi.

6 Apply for the FDP by clicking the symbol of "+" on the "Recent Trends and advances in Energy storage system for E mobility" FDP. Now a message will pop up that you have successfully applied for the FDP. You can see the same in the "Applied Workshops".

Participant NOC Format

(On Letter Head)

To Whom so ever it May Concern

Mr./Ms./Dr. .....
is an employee/research scholar/PG student of our organization. We do not have any objection for allowing him/her for one week AICTE-FDP program named "Recent Trends and advances in Energy storage system for E-mobility- Application No: 1716623233" from 9th Sept. to 14th Sept. 2024 organized by Department of Electrical & Electronics Engineering at KLEIT, Hubballi

Date:

Signature & Seal
Principal / Head of the Dept.